#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 13 October 2005 (13.10.2005)

**PCT** 

# (10) International Publication Number WO 2005/096042 A1

(51) International Patent Classification<sup>7</sup>: G02B 6/00

(21) International Application Number:

PCT/JP2005/006566

(22) International Filing Date: 29 March 2005 (29.03.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2004-102827

31 March 2004 (31.03.2004) JF

(71) Applicant (for all designated States except US): FUJI PHOTO FILM CO., LTD. [JP/JP]; 210, Nakanuma, Minami-ashigara-shi, Kanagawa, 2500123 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SATO, Takanori [JP/JP]; c/o Fuji Photo Film Co., Ltd., 200, Onakazato,

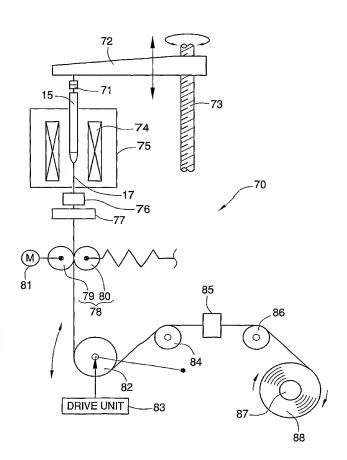
Fujinomiya-shi, Shizuoka, 4180044 (JP). **KARAKI, Hideyuki** [JP/JP]; c/o Fuji Photo Film Co., Ltd., 210, Nakanuma, Minami-ashigara-shi, Kanagawa, 2500123 (JP). **KEGASAWA, Tadahiro** [JP/JP]; c/o Fuji Photo Film Co., Ltd., 200, Onakazato, Fujinomiya-shi, Shizuoka, 4180044 (JP).

(74) Agents: KOBAYASHI, Kazunori et al.; Taiyo Seimei Otsuka Bldg. 3F, 25-1, Kita-Otsuka 2-chome, Toshima-ku, Tokyo 1700004 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

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#### (54) Title: PLASTIC OPTICAL FIBER AND METHOD FOR MANUFACTURING THE SAME



(57) Abstract: A preform (15) having a clad part of PVDF and a core part of PMMA is manufactured. The preform (15) is partially heated in a heating furnace (74) of 240°C. The preform (15) is subject to the melt-drawing process to form a plastic optical fiber (17). The drawing tension to the preform (15) is measured by use of a drawing tension measure device (76). Based on the measured value, a drawing roller pair (78) adjusts the drawing tension to be 3.8 MPa. The plastic optical fiber (17) is fed via a dancer roller (82) and rollers (84, 86) toward a bobbin (87) to wind the plastic optical fiber (17). A winding tension measure device (85) measures the winding tension to the POF (17). Based on the measured value, the dancer roller (82) changes its position to adjust the winding tension to be 2.5 MPa.

## WO 2005/096042 A1



(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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#### Published:

with international search report